

Professional Audio Service Bulletin

Mincom
Division **3M**
COMPANY

BULLETIN NO. 4

SUBJECT: Variable Speed Modification Installation Instructions

APPLICABLE TO: M-79 Professional Audio Recorders
Mono thru 4 Tracks

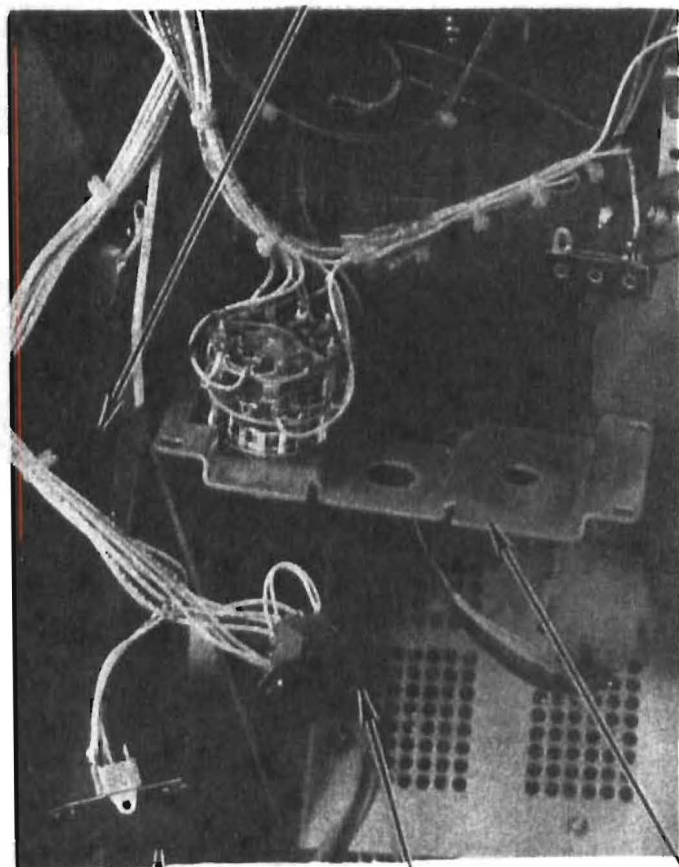
REQUIRED PARTS:	Pilot Light, Amber 24V	Mincom	Catalog No. 83-1550-2590
1 EA. PER MACHINE	Resistor - Var 2.5 K ohm	"	Catalog No. 83-1520-1627
	Knob	"	Catalog No. 83-1270-0708
	Plate - Stripper, Switch	"	Catalog No. 83-3320-2789

PROCEDURE:

- 1) Remove Power to Machine
- 2) Remove Capstan Speed Switch Knob.
- 3) Raise Deck and Secure
- 4) Remove Nuts that secure power and reel balance switches, use caution as the switches have spacers on the under side.
- 5) Remove the four Phillips Screws that hold the Capstan Speed Switch Assembly to the deck. This allows the Switch Assembly to drop back far enough to replace the Stripper plate. See Figure 1.
- 6) Mount Amber Lamp and 2.5 K ohm Variable Resistor. See Figure 2
- 7) Remove Ty-raps that secure wires with the Amp Connectors and connect to Amber Lamp. See Figure 2 and 3.
- 8) Solder a 3 inch length of 22 ga. wire from the open lug of TB5 to the wiper of R2, the 2.5 K ohm variable resistor. See Figure 3
- 9) Locate the white 22 ga. wire removed from the Ty-raps marked R2/1 → 104J2A, and solder to the lug on R2 as shown in Figure 3.
- 10) Solder the Black ground wire marked R2/3 → TB3 to the lug on R2 as shown in Figure 3.
- 11) The two tabs located on the Capstan Speed Switch S3 should be bent down, this adds the two positions for Var Hi and Var Low when the Knob is turned clockwise. See Figure 4.

- 12) Install Power and Reel Balance Switches.
- 13) Install Capstan Speed Switch Assembly and insure that the ground wire coming off the switch is attached to one of the Phillips screws.
- 14) Install Variable Speed Knob and Speed Switch Knob.
- 15) Check to insure all connections are made properly and apply power. Insure that the Amber Lamp lights in the Var Hi and Var Low Switch position and Capstan Speed does vary when rotating variable speed knob.
- 16) Insure Equalization Switching in the Var Hi, Var Low position by checking continuity between B-11 and ground for Hi Equalization and B-9 and ground for Lo Equalization at the Electronics Board, using the extender card.

Ground Wire

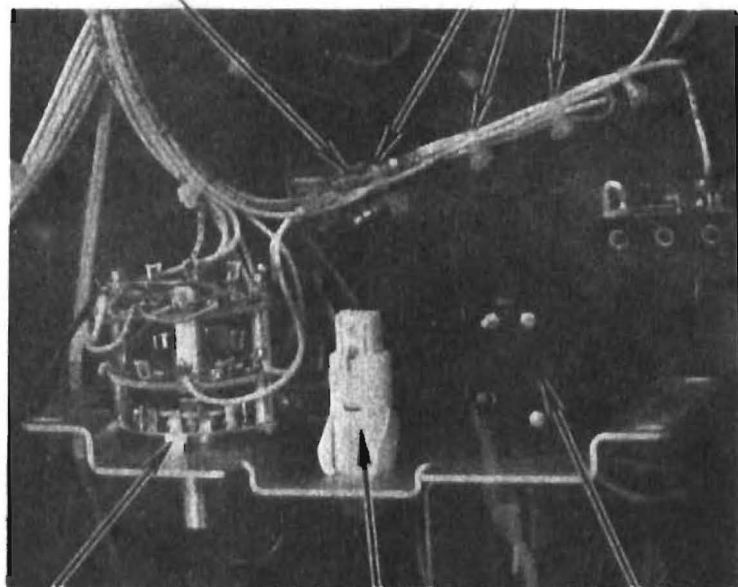


Power Switch Reel Balance Switch Capstan Speed Switch Assy.

FIGURE 1

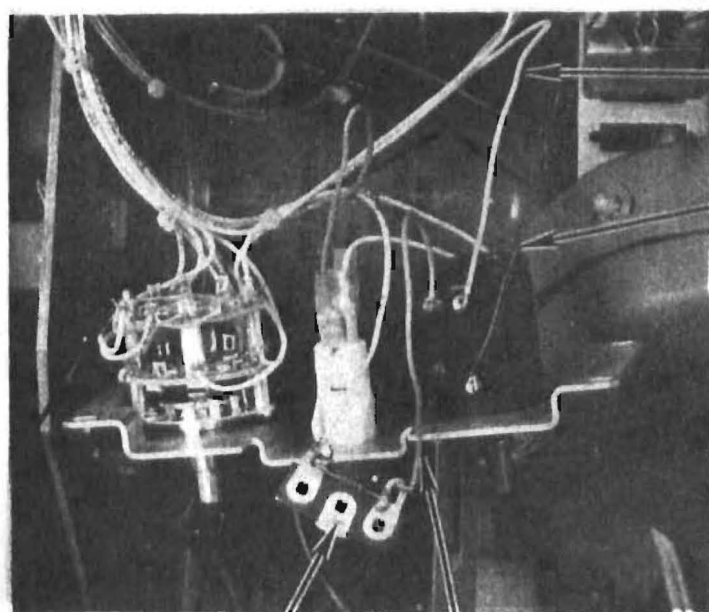
Amp Connectors

Ty-Raps



Capstan Speed Switch S3 Amber Lamp DS2 Var. Resistor 2.5K Ohm R2

FIGURE 2

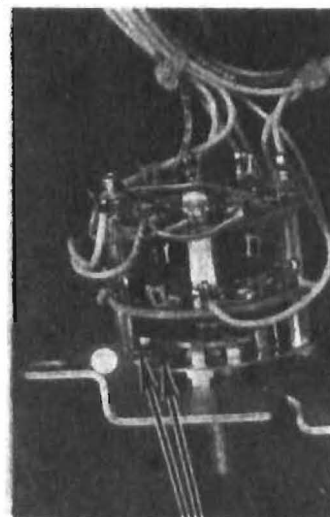


White 22 ga. Wire
R2/1 → 104J2A

Black 22 ga.
R2/3 → TB3

TB 5 22 ga. Wire 3"
To Wiper of R2

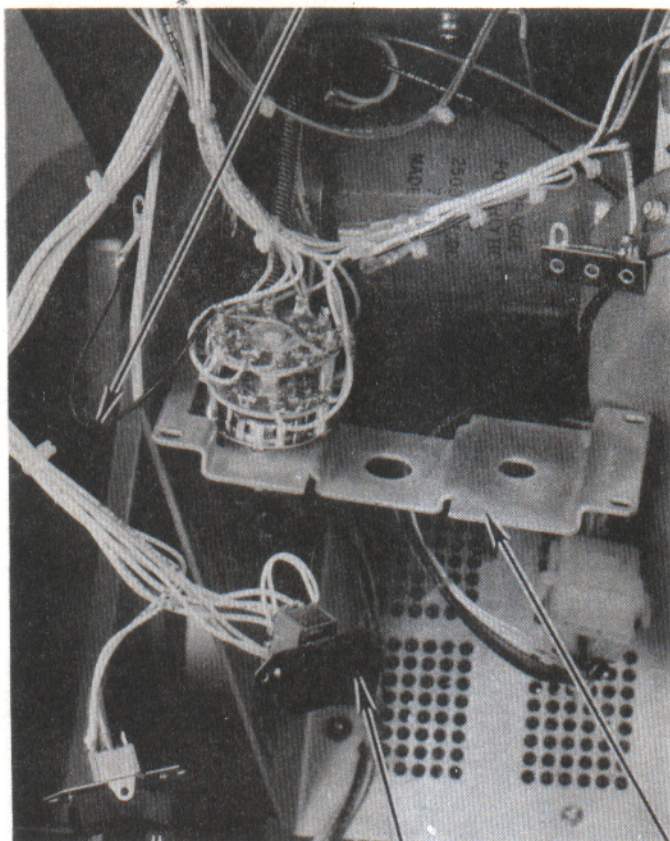
FIGURE 3



TABS

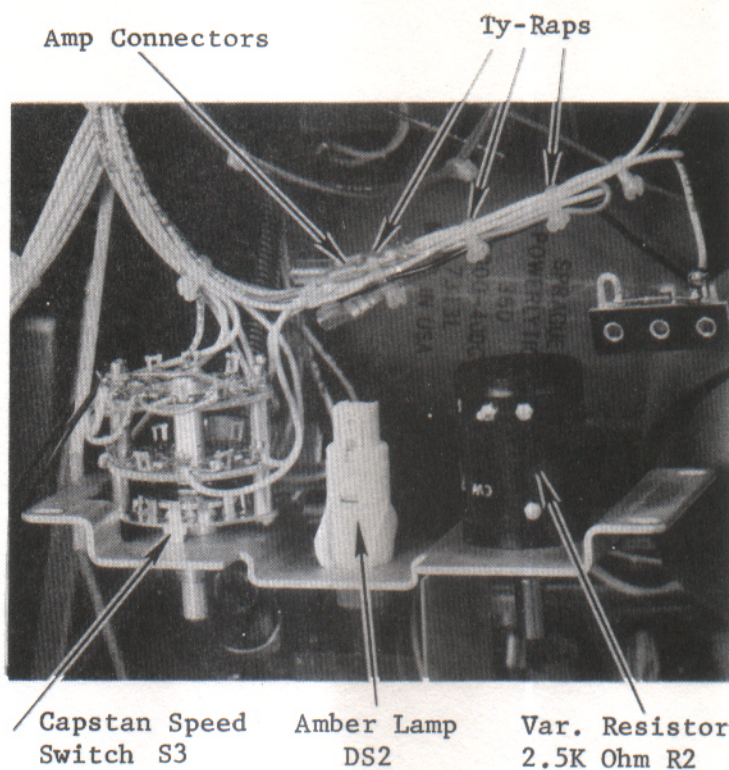
FIGURE 4

Ground Wire



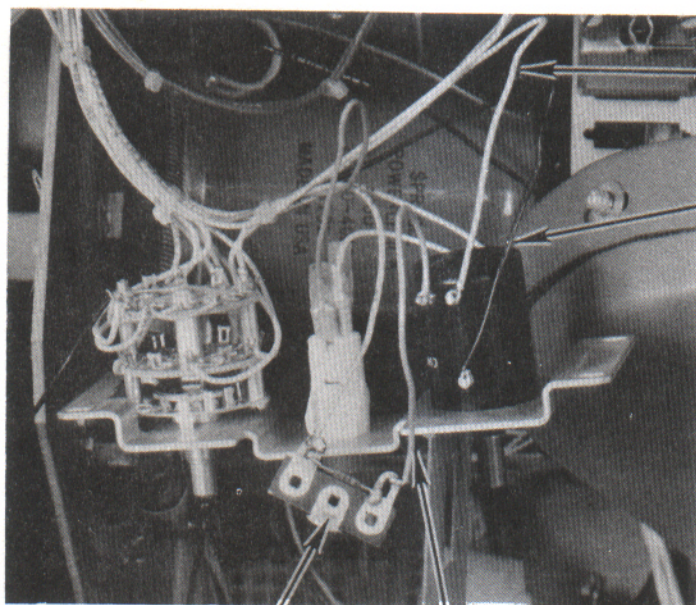
Power Switch Reel Balance Switch Capstan Speed Switch Assy.

FIGURE 1



Amp Connectors Ty-Raps
Capstan Speed Switch S3 Amber Lamp DS2 Var. Resistor 2.5K Ohm R2

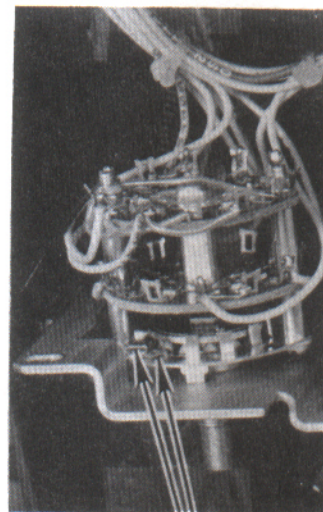
FIGURE 2



TB 5 22 ga. Wire 3"
To Wiper of R2

White 22 ga. Wire
R2/1 → 104J2A

Black 22 ga.
R2/3 → TB3



TABS

FIGURE 4

FIGURE 3